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<110> CERRETTI, Douglas P.

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Ile Ser Arg Gly Arg Gly Ala Lys Ala Pro Gly Trp Leu Ser Tyr Ser

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Leu Arg Phe Gly Gly Gln Arg Tyr Ile Val His Met Arg Val Asn Lys

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Leu Leu Phe Ala Ala His Leu Pro Val Phe Thr Tyr Thr Glu Gln His

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Ala Leu Leu Gln Asp Gln Pro Phe Ile Gln Asp Asp Cys Tyr Tyr His

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Gly Tyr Val Glu Gly Val Pro Glu Ser Leu Val Ala Leu Ser Thr Cys

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Ser Gly Gly Phe Leu Gly Met Leu Gln Ile Asn Asp Leu Val Tyr Glu

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Ile Lys Pro Ile Ser Val Ser Ala Thr Phe Glu His Leu Val Tyr Lys

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Ile Asp Ser Asp Asp Thr Gln Phe Pro Pro Met Arg Cys Gly Leu Thr

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Glu Glu Lys Ile Ala His Gln Met Glu Leu Gln Leu Ser Tyr Asn Phe

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Thr Leu Lys Gln Ser Ser Phe Val Gly Trp Trp Thr His Gln Arg Phe

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Val Glu Leu Val Val Val Val Asp Asn Ile Arg Tyr Leu Phe Ser Gln

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Asp Asn Val Leu Glu Asp Phe Ser Ile Trp Lys Asn Tyr Asn Leu Asn

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Asn Arg Leu Gln His Asp Val Ala His Leu Phe Ile Lys Asp Thr Gln

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Gly Met Lys Leu Gly Val Ala Tyr Val Lys Gly Ile Cys Gln Asn Pro

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Phe Asn Thr Gly Val Asp Val Phe Glu Asp Asn Arg Leu Val Val Phe

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Ala Ile Thr Leu Gly His Glu Leu Gly His Asn Leu Gly Met Gln His

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Asp Thr Gln Trp Cys Val Cys Glu Leu Gln Trp Cys Ile Met His Ala

355 360 365

Tyr Arg Lys Val Thr Thr Lys Phe Ser Asn Cys Ser Tyr Ala Gln Tyr

370 375 380

Trp Asp Ser Thr Ile Ser Ser Gly Leu Cys Ile Gln Pro Pro Pro Tyr

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Pro Cys Cys Leu Leu Asn Cys Thr Leu His Pro Gly Ala Ala Cys Ala

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Thr Ser His Gln Cys Pro Asp Asp Val Tyr Val Gln Asp Gly Ile Ser

485 490 495

Cys Asn Val Asn Ala Phe Cys Tyr Glu Lys Thr Cys Asn Asn His Asp

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Gly Ile Val Gly Thr Thr Tyr Val Lys Cys Trp Thr Pro Asp Ile Met

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Glu His Ser Thr Val Gln Gln Phe His Leu Asn Asp Thr Thr Cys Trp

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Gly Thr Asp Tyr His Leu Gly Met Ala Ile Pro Asp Ile Gly Glu Val

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Lys Asp Gly Thr Val Cys Gly Pro Glu Lys Ile Cys Ile Arg Lys Lys

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Cys Ala Ser Met Val His Leu Ser Gln Ala Cys Gln Pro Lys Thr Cys

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Asn Met Arg Gly Ile Cys Asn Asn Lys Gln His Cys His Cys Asn His

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Glu Trp Ala Pro Pro Tyr Cys Lys Asp Lys Gly Tyr Gly Gly Ser Ala

660 665 670

Asp Ser Gly Pro Pro Pro Lys Asn Asn Met Glu Gly Leu Asn Val Met

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Gly Lys Leu Arg Tyr Leu Ser Leu Leu Cys Leu Leu Pro Leu Val Ala

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Leu Leu Asn Cys Thr Leu His Pro Gly Ala Ala Cys Ala Phe Gly Ile

50 55 60

Cys Cys Lys Asp Cys Lys Phe Leu Pro Ser Gly Thr Leu Cys Arg Gln

65 70 75 80

Gln Val Gly Glu Cys Asp Leu Pro Glu Trp Cys Asn Gly Thr Ser His

85 90 95

Gln Cys Pro Asp Asp Val Tyr Val Gln Asp Gly Ile Ser Cys Asn Val

100 105 110

Asn Ala Phe Cys Tyr Glu Lys Thr Cys Asn Asn His Asp Ile Gln Cys

115 120 125

Lys Glu Ile Phe Gly Gln Asp Ala Arg Ser Ala Ser Gln Ser Cys Tyr

130 135 140

Gln Glu Ile Asn Thr Gln Gly Asn Arg Phe Gly His Cys Gly Ile Val

145 150 155 160

Gly Thr Thr Tyr Val Lys Cys Trp Thr Pro Asp Ile Met Cys Gly Arg

165 170 175

Val Gln Cys Glu Asn Val Gly Val Ile Pro Asn Leu Ile Glu His Ser

180 185 190

Thr Val Gln Gln Phe His Leu Asn Asp Thr Thr Cys Trp Gly Thr Asp

195 200 205

Tyr His Leu Gly Met Ala Ile Pro Asp Ile Gly Glu Val Lys Asp Gly

210 215 220

Thr Val Cys Gly Pro Glu Ile Ile Cys Ile Arg Lys Lys Cys Ala Ser

225 230 235 240

Met Val His Leu Ser Gln Ala Cys Gln Pro Lys Thr Cys Asn Met Arg

245 250 255

Gly Ile Cys Asn Asn Lys Gln His Cys His Cys Asn His Glu Trp Ala

260 265 270

Pro Pro Tyr Cys Lys Asp Lys Gly Tyr Gly Gly Ser Ala Asp Ser Gly

275 280 285

Pro Pro Pro Lys Asn Asn Met Glu Gly Leu Asn Val Met Gly Lys Leu

290 295 300

Arg Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro

305 310 315 320

Glu Ala Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys

325 330 335

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val

340 345 350

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp

355 360 365

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr

370 375 380

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp

385 390 395 400

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu

405 410 415

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg

420 425 430

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys

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Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp

450 455 460

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys

465 470 475 480

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485 490 495

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser

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Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser

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